

We Claim:

1. A pouch comprising:

a pouch body having a top part and a bottom part; and

a branched chamber extending outwardly from a side wall of the pouch body at a location proximal to the top part with respect to the bottom part, the branched chamber having an entrance that opens into the pouch body, the branched chamber having a rupturable seal member disposed therein for defining a quantitative cell within the branched chamber such that communication between the pouch body and the quantitative cell is provided when the seal member is ruptured permitting contents of the pouch body and quantitative cell to mix together; and

a plug body associated with a pouring spout that is part of one of the pouch body and the branched chamber for discharging the mixed contents of the pouch.

2. The pouch of claim 1, wherein the seal member extends at least substantially a width of the branched chamber.

3. The pouch of claim 1, further including:

a pressure absorbing space defined between the branched chamber and the top part of the pouch body for absorbing movement of the content within the pouch body when an unintentional pressure is applied thereto.

4. The pouch of claim 1, wherein the pouch body is pressurized so that manipulation of the pressurized pouch body causes unsealing of the seal element and mixing of the contents.

5. The pouch of claim 1, wherein the pouring spout is formed at a free end of the branched chamber and the plug body is a member that selectively opens and closes the branched chamber to permit the mixed contents to be discharged therefrom.

6. The pouch of claim 5, wherein the plug body is a screw cap permitting sealing of the branched chamber.

7. The pouch of claim 1, wherein the seal member divides the pouch into two storage compartments, namely a first storage compartment defined in the pouch body and a second storage compartment in the form of the quantitative cell defined in the branched chamber.

8. The pouch of claim 1, wherein the pouring spout is formed in the top part of the pouch body and the plug body is fitted therein to selectively permit discharge of the mixed contents after the seal member is ruptured.

9. The pouch of claim 8, wherein the plug body is a screw cap.

10. The pouch of claim 8, wherein a second pouring spout is formed at a free end of the branched chamber to provide an additional passageway for discharge or filling, the second pouring spout including a member that selectively seals the second pouring spout.

11. The pouch of claim 1, wherein the seal member includes a base section having a first surface that has a tight seal part and an opposing second surface that has a readily peelable seal part, the tight seal part being coupled to one wall of the branched chamber and the readily peelable seal part being releasably coupled to an opposing wall of the branched chamber.

12. The pouch of claim 11, wherein the seal member is formed of a mixed resin formed of one resin that is of the same type as an inner surface of the branched chamber and a resin that is incompatible with the resin of the inner surface of the branched chamber.

13. The pouch of claim 11, wherein the seal member is a longitudinal strip that extends at least substantially across a width of the branched chamber.

14. The pouch of claim 11, wherein the tight seal part is located closer to the pouch body than the peelable seal part, while the peelable seal part is located closer to the pouring spout.

15. The pouch of claim 1, wherein the seal member is a two layer film defined by a readily peelable seal layer and a tight seal layer.

16. The pouch of claim 15, wherein the readily peelable layer comprises a heat seal resin different from a resin forming an inner surface of the branched chamber.

17. The pouch of claim 15, wherein the readily peelable layer comprises a heat seal resin made of a blend of a first resin that is of the same type of resin used to form an inner surface of the branched chamber and a resin incompatible therewith.

18. The pouch of claim 15, wherein the readily peelable layer includes an inorganic material selected from the group consisting of calcium carbonate and titanium oxide.

19. The pouch of claim 15, wherein the readily peelable layer is a porous member due to addition of a foaming agent to thereby improve the peelability of the layer.

20. The pouch of claim 1, wherein the sealing member is a three layer film defined by a tight seal layer, a cohesive failure layer, and a heat seal thin layer, whereby a peeling force acts to rupture the heat seal thin layer and peeling

takes place as an interlayer peeling with the cohesive failure layer being an intermediate layer to form a readily unsealable sealing member.

21. A pouch comprising:

a pouch body having a first end and a second end and a compartment for storing a first content; and

a branched chamber extending outwardly from a side wall of the pouch body at a location proximal to the first end of the pouch body with an entrance being formed from the pouch body into the branched chamber, the branched chamber having a pouring spout defined at a distal end thereof, the branched chamber having a rupturable seal member disposed therein at or proximate the entrance for defining a quantitative cell within the branched chamber for storing a second content and for preventing flow of the first content into the quantitative cell prior to rupturing of the seal member, the seal member having one face that is securely attached to one wall of the branched chamber, while another face thereof is coupled to an opposing wall in a releasable manner to permit the seal member to readily rupture when a pressure is applied to the pouch body resulting in the first and second contents mixing; and

a plug body operatively coupled to the pouring spot for controlled discharge of the mixed contents.

22. The pouch of claim 21, wherein the plug body is a screw cap.
23. The pouch of claim 21, wherein the seal member includes a base section with the one face being a tight seal part and the other face being a readily peelable seal part.
24. The pouch of claim 21, wherein the seal member is formed of a mixed resin formed of one resin that is of the same type as an inner surface of the branched chamber and a resin that is incompatible with the resin of the inner surface of the branched chamber.
25. The pouch of claim 22, wherein the seal member is a longitudinal strip that extends at least substantially across a width of the branched chamber.
26. The pouch of claim 21, wherein the seal member is a two layer film defined by a readily peelable seal layer and a tight seal layer.
27. The pouch of claim 21, wherein the sealing member is a three layer film defined by a tight seal layer, a cohesive failure layer, and a heat seal thin layer, whereby a peeling force acts to rupture the heat seal thin layer and peeling takes place as an interlayer peeling with the cohesive failure layer being an intermediate layer to form a readily unsealable sealing member.

28. A pouch comprising:

a pouch body having a first end and a second end and a compartment for storing a first content, wherein a pouring spout is formed at one of the first and second ends; and

a branched chamber extending outwardly from a side wall of the pouch body at a location proximal to the first end of the pouch body with an entrance being formed from the pouch body into the branched chamber, the branched chamber having a rupturable seal member formed longitudinally across a width of the branched chamber at or proximate the entrance for defining a quantitative cell within the branched chamber for storing a second content and for preventing flow of the first content into the quantitative cell prior to rupturing of the seal member, the seal member having one face that is securely attached to one wall of the branched chamber, while another face thereof is coupled to an opposing wall in a releasable manner to permit the seal member to readily rupture when a pressure is applied to the pouch body resulting in the first and second contents mixing; and

a plug body operatively coupled to the pouring spot for controlled discharge of the mixed contents.